

No.



8000050

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Royal Sluis

Whereas, THERE HAS BEEN PRESENTED TO THE  
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

MARIGOLD

'Orange Winner'



Attest:

*Edward H. [Signature]*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 29th day of January in the year of our Lord one thousand nine hundred and eighty-one.

*John R. Block*

Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY Bedding Plant		1b. VARIETY NAME Orange Winner		FOR OFFICIAL USE ONLY PV NUMBER 8000050	
2. KIND NAME Marigold		3. GENUS AND SPECIES NAME Tagetes patula		FILING DATE 1/29/80	TIME 3.00 <small>A.M.</small> <input checked="" type="radio"/> <small>P.M.</small>
4. FAMILY NAME (BOTANICAL) Compositae		5. DATE OF DETERMINATION June 5 1977		FEE RECEIVED \$ 500. \$ 250.00 \$	DATE 1/29/80 12/9/80
6. NAME OF APPLICANT(S) Royal Sluis Koninklijke zaaizaad- bedrijven Gebroeders Sluis, b.v.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Westeinde 161 Enkhuizen, Netherlands		8. TELEPHONE AREA CODE AND NUMBER 02280-2741	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Association			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers: Henk S. Asma, Royal Sluis, Postbox 22, Enkhuizen, Holland.					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: <input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement. <input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) <input type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
14B. Does the applicant(s) specify that this variety be limited as to number of generations? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14C. If "Yes," to 14B, how many generations of production beyond breeder seed? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.					

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

(DATE)

december 12, 1979

(SIGNATURE OF APPLICANT)

ROYAL SLUIS

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

**5** Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.

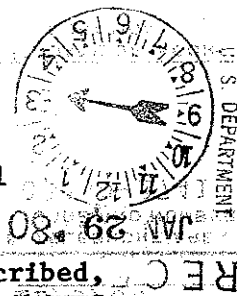
**13a** Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.

**13b** Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

**13c** Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.

**13d** Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

**14A** If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)



MARIGOLD ORANGE WINNER  
=====

8000050

13 A Origin and Breeding History of the Variety

Orange winner is an open pollinated variety and has been derived from own breeding material.

In this material were a number of varieties included: Honeycomb, Goldie, Harvest Moon, Petite Orange, Autumn Haze, Stardust.

Orange Winner appears to be <sup>STABLE</sup> and uniform for three generations.

VARIANTS - SEMI DOUBLES AND BROWN PETAL'D TYPES, BOTH OCCURRING  
LESS THAN 1%. (LETTER OF 7/25/80) R/S 9/18/80

13 B Novelty Statement

~~Orange Winner is not similar to any other variety.~~

~~The most nearly variety for habit and shape is Goldie; however, Orange winner is dwarfer and more compact growing.~~

~~The most nearly variety for flower size and -shape is Autumn Haze; however, Orange Winner flowers are more flat-formed and less crested.~~

~~R/S 9/15/80~~

hsa

121279

Exhibit A 1

The variety "Orange Winner" appears stable and uniform after several generations of selfing in our breeding programme.

During two generations of seed increase and production the percentage of off types appears to be 0,2 resp. 0,3%.

Off types that occur: semi-doubles and brown petaled types.

*J*

B Rfs 9/15/80

Exhibit ~~A-2~~

Differences with most similar varieties:  
(determined in our own trials)

Height	Orange Winner	18 cm	st. dev.	0,9 cm,	95%
	Orange Boy	20 cm	" "	1,1 cm	"
	Goldfinch	22 cm	" "	1,2 cm	"

Flower-size	Orange Winner	Ø 6,5 cm	" "	0,2 cm	"
	Orange Boy	Ø 5,5 cm	" "	0,2 cm	"
	Goldfinch	Ø 7 cm	" "	0,3 cm	"

Flower colour	Orange Winner	HCC 24a	fading to	23a	REFERS TO ROYAL HORT. SOC. COLOUR CHART. Rfs 9/15/80
	Orange Boy	" 25a	" "	24a	
	Goldfinch	" 17b	" "	15a	

Nr. of observations: 100.

*[Handwritten signature]*

OBJECTIVE DESCRIPTION OF VARIETY  
MARIGOLD (TAGETE)

INSTRUCTIONS - See Reverse.

NAME OF APPLICANT(S) Royal Sluis, Koninklijke Zaaizaadbedrijven Gebroeders Sluis b.v.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) Westeinde 161, Postbox 22, Enkhuizen - Holland	PVPO NUMBER 8000050
	VARIETY NAME OR TEMPORARY DESIGNATION ORANGE WINNER P/S 9/15/80

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 0 8 9 or 0 8 ) when number is either 99 or less or 9 or less.

1. SPECIES TYPE:

1 = ERECTA (African) 2 = PATULA (French) 3 = TENUIFOLIA (Signata) 4 = LUCIDA (Sweet)  
5 = OTHER (Specify)

2

2. PLOIDY:

1 = DIPLOID (n = ) 2 = TRIPLOID (n = ) 3 = TETRAPLOID (n = 24 )

3

3. PLANT TYPE/HABIT:

1 = EXTRA DWARF (Miniature, petite) < 20 CM. 2 = DWARF 25- 35 CM. 3 = SEMIDWARF 40-55 CM. 4 = TALL > 60 CM.

2

1 = ERECT 2 = SEMIERECT 3 = DECUMBENT

2

1 = COMPACT 2 = LAX

1

Flowering: 1 = LONG SEASON 2 = SHORT SEASON

1

4. LEAF (Middle of first flowering branch):

Type: 1 = SIMPLE 2 = COMPOUND

2

Leaflet: 1 = OVATE 2 = LANCEOLATE 3 = ELLIPTIC 4 = FILIFORM

4

Margin: 1 = ENTIRE 2 = CRENATE 3 = SERRATE 4 = DENTATE 5 = INCISED

3

0 0 4 CM. LONG 1 0 MM. WIDE 1 Anthocyanin pigment in petioles: 1 = ABSENT 2 = PRESENT

0 0 4

1 0

1

Glands: 1 = PUNCTATE 2 = LARGE DOTS 1 Glands: 1 = BASAL 2 = APICAL

1

1

Odor: 1 = NONE 2 = MILD FRAGRANCE 3 = STRONG FRAGRANCE 4 = MILD "MARIGOLD" 5 = STRONG "MARIGOLD"

2

5. STEM:

1 = STRAIGHT 2 = ZIGZAG 1 = BRITTLE 2 = FLEXIBLE

1

1

Anthocyanin: 1 = ABSENT 2 = ALONG VEINS ONLY 3 = SOLID COLORATION

1

2 5

CM. FROM BASE OF MAIN STEM TO AXIL OF TOP BRANCH CM. FROM AXIL OF TOP BRANCH TO INVOLUCRE OF TERMINAL FLOWER

1 5

1 0

NO. OF INTERNODES BELOW FIRST BRANCH NO. OF FIRST ORDER BRANCHES (from main stem)

0 2

0 4

6. FLOWER:

Type: 1 = CARNATION 2 = CHRYSANTHEMUM 3 = OTHER Carnation with crested center.

3

1 = SINGLES 2 = DOUBLES

2

Silhouette: 1 = FLATTENED 2 = ROSETTE 3 = GLOBULAR

2

Odor: 1 = NONE 2 = MILD FRAGRANCE 3 = STRONG FRAGRANCE 4 = MILD "MARIGOLD" 5 = STRONG "MARIGOLD"

2

## 6. FLOWER: (Continued)

☒ Ray: 1 = FLATTENED 2 = CURLED/TWISTED (*Fantastic*)

☒ Apices: 1 = ENTIRE 2 = LOBED 3 = NOTCHED

☒ SURFACE - Dorsal: }  
☒ SURFACE - Ventral: } 1 = GLABROUS 2 = PUBESCENT 3 = PUBESCENT ON APICE ONLY

☒ LUSTER - Dorsal: }  
☒ LUSTER - Ventral: } 1 = SHINY 2 = DULL

☒ PATTERN - Dorsal: } 1 = SOLID 2 = SPOTTED 3 = STRIPED

☒ PATTERN - Ventral: } 4 = PICOTEE 5 = OTHER (*Specify*)

☒ Color: 1 = SOLID 2 = BICOLOR (*Specify colors*): Primary LIGHT ORANGE Secondary (Rough)  
 State color standards used: HCC 24a (HORT. COLOR CHART) RJS 9/15/80

SIZE (Use outer row of first matured flower): ☒ 50 MM. LONG ☒ 50 MM. WIDE

☒ Disc: 1 = ABSENT 2 = PRESENT, COVERED 3 = PRESENT, UNCOVERED

☒ Type: 1 = NOT QUILLED 2 = QUILLED

## 7. DISEASE RESISTANCE (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☒ ROOT-ROT (*Phytophthora*) ☒ VIRUS YELLOWS  
☒ GREY MOLD (*Botrytis*) ☒ FUSARIUM WILT  
☒ STEM ROT (*Sclerotinia*) ☒ WITCHES BROOM

## 8. INDICATE A VARIETY THAT MOST NEARLY RESEMBLE THAT SUBMITTED

CHARACTER	VARIETY	CHARACTER	VARIETY
Plant shape	<u>Goldie</u>	Flower size	<u>Autumn Haze</u>
Plant size	<u>"</u>	Flower shape	<u>"</u>
Foliage	<u>"</u>	Flower color	<u>NONE</u>

## INSTRUCTIONS

REFERENCES: The following publications may be used as a reference aid for completing this form:

- (a) Bailey, L. H., 1949, Manual of Cultivated Plants, MacMillan.
- (b) Royal Horticulture Society, 1965, Dictionary of Gardening, Oxford.
- (c) Wyman, Donald, 1971, Wyman's Gardening Encyclopedia, MacMillan.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.

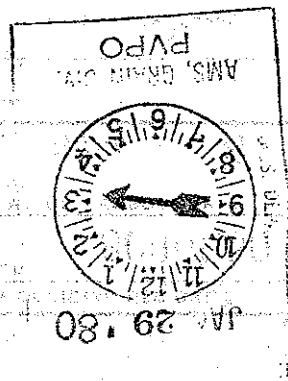






EXHIBIT D

ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

UNITED STATES DEPT. OF AGRICULTURE  
National Agricultural Library Building  
Protection Office  
BELTSVILLE, Maryland 20705  
U.S.A.

POSTBOX 22, 1600 AA ENKHUIZEN  
HOLLAND

October 10, 1980.

For the attention of Mr. Robert J. Snyder

Dear Mr. Snyder:

Subject: Marigold application No. 8000050, "Orange Winner"

Height	Orange Sherbet	22 cm	st. dev.	1,1 cm
	Primo Apricot	20 cm	"	1,2 cm
	Tangerine	22 cm	"	1,3 cm
Flowersize	Orange Sherbet	6,5 cm	"	0,3 cm
	Primo Apricot	6 cm	"	0,2 cm
	Tangerine	6 cm	"	0,3 cm
Flower colour	Orange Sherbet	25b fading to 24b		
	Primo Apricot	24b fading to <del>24b</del> 23b B		
	Tangerine	25b fading to 25c		

*ROYAL HORT. SOC. COLOUR CHART READINGS  
rfs 10/16/80*

Nr. of observation: 25, all determined in our own trials in 1979.  
Dev. standard: 95%

Yours sincerely,  
ROYAL SLUIS

Henk S. Asma  
Marketing Flower Seeds

HSA/MdV